

# CRATE

## *BX-25/BX-50 BASS AMPLIFIER*



### OWNER'S MANUAL

#### MANUAL DEL PROPIETARIO • MODE D'EMPLOI

##### **Congratulations!**

You are now the proud owner of the compact but powerful Crate BX-25 or BX-50 Bass Amplifier. The small size of each amplifier belies its big performance: the Crate Custom speaker makes the most of the amplifier's musical output power: 27 watts into a 10" speaker for the BX-25; 50 watts into a 12" speaker for the BX-50. A 4-band rotary EQ combined with Crate's variable Contour gives you complete control over a wide variety of sounds. In addition, the front panel headphone and extension speaker jacks make this amplifier equally suited for private practicing as well as performing in intimate surroundings.

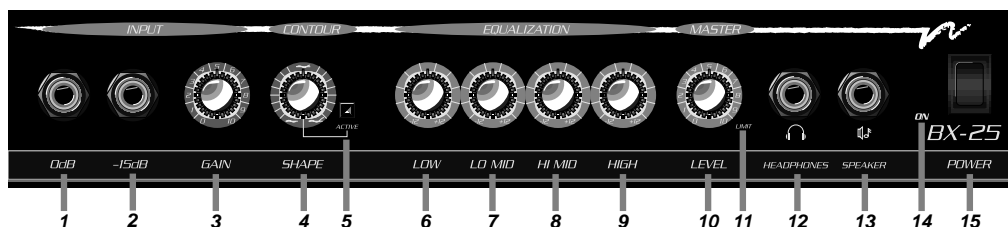
Like all Crate products, your BX-25/BX-50 is Musician Made in the U.S.A., using only the best components. Extensive testing at the hands (and ears) of skilled technicians and musicians insures you that this amplifier is the absolute best it can be.

In order to get the most out of your new bass amp, we urge you to check out the information in this manual before you begin playing.

And ***thank you*** for choosing **CRATE®**

# CRATE®

## BX-25/50 Bass Amplifier



**1: 0dB INPUT:** Connect your bass here if it has "normal" pickups and no active electronics. This sends a full strength signal into the amplifier. If your bass has active electronics or high output pickups, or if the amp sounds like it's distorting try the -15dB Input (#2).

**2: -15dB INPUT:** Connect your bass here if it has active electronics or high output pickups. The output signal will be attenuated by 15dB to keep it from overloading the amplifier's input stages.

**3: GAIN:** This serves as the input signal level control, allowing you to set the amplifier for the best signal to noise ratio.

**4: CONTOUR SHAPE:** This control is only active when the Contour Active switch (#5) is pressed in. The setting of this control shifts the frequency where the contour effect is centered, giving you a wide variety of tonal variations, from a studio "V"-shaped tone to a more "live", more present sound.

**5: CONTOUR ACTIVE:** When this pushbutton switch is pressed in the Contour Shape control (#4) is activated and the sound of your bass is affected by the setting of the control. Pressing the switch in a second time releases it, deactivating the Shape control.

**6: LOW:** Adjust the output level of your low-bass tones with this control. The center position is "flat" (no boost or cut). Turning the control to the left reduces the output level of the low frequency tones; turning it to the right increases their level. This control allows a 28dB range of boost or cut at 60Hz.

**7: LOW MID:** Adjust the output level of your lower midbass tones with this control. The center position is "flat" (no boost or cut). Turning the control to the left reduces the output level of the lower midbass tones; turning it to the right increases their level. This control allows a 15dB range of boost or cut at 400Hz for the BX-25; 150Hz for the BX-50.

**8: HIGH MID:** Adjust the output level of your upper midbass tones with this control. The center position is "flat" (no boost or cut). Turning the control to the left reduces the output level of the upper midbass tones; turning it to the right increases their level. This control allows a 18dB range of boost or cut at 1kHz.

**9: HIGH:** Adjust the output level of your high frequency overtones with this control. The center position is "flat" (no boost or cut). Turning the control to the left reduces the output level of the high frequency overtones; turning it to the right increases their level. This control allows a 33dB range of boost or cut at 10kHz.

**10: MASTER LEVEL:** The output level of the internal speaker, headphone jack and extension speaker are governed by the setting of this control. At the full left position there will be no output; rotating the control to the right increases the output volume level.

**11: LIMIT:** When a power amplifier reaches maximum output levels it may begin to "clip" its output signal which generates potentially speaker-damaging distortion. The BX-25/50 has a special APM (Automatic Power Maximizer) limiting circuit which helps minimize this problem by monitoring the power amplifier's output signal, keeping it below clipping. This feature insures you that the sound from your amplifier remains clean and pure even at full power. The APM indicator will only light when the amplifier is near clipping; flashing at peak playing levels is acceptable, however if the light remains on constantly reduce the Master Volume until the light flashes.

**12: HEADPHONES:** For private practice sessions, plug a pair of stereo headphones into this jack. The internal speaker is disconnected whenever headphones are being used.

**13: EXTENSION SPEAKER:** You may connect the BX-25/50 to an external speaker with a rated impedance of 4 ohms or more using this jack. The internal speaker is disconnected from the amplifier when the Extension Speaker jack is used.

**WARNING: DO NOT attempt to use headphones in the Speaker jack! Permanent hearing damage could result!**

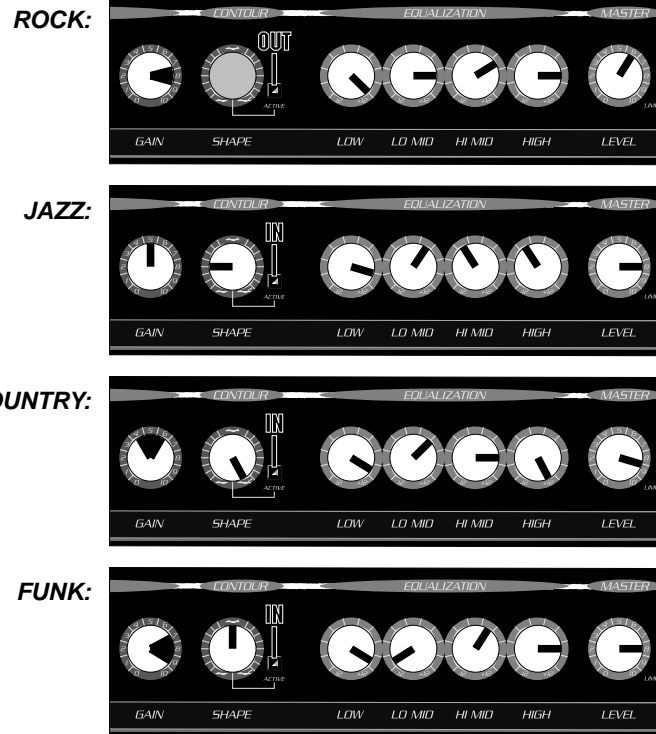
**14: ON LED:** The word "ON" will glow when you turn the amplifier on showing you that the amplifier is activated and ready to play.

**15: POWER:** This heavy duty rocker type switch is used to turn the amplifier ON in the up position, OFF in the down position. The ON LED (#14) works with this switch as a visual indicator.

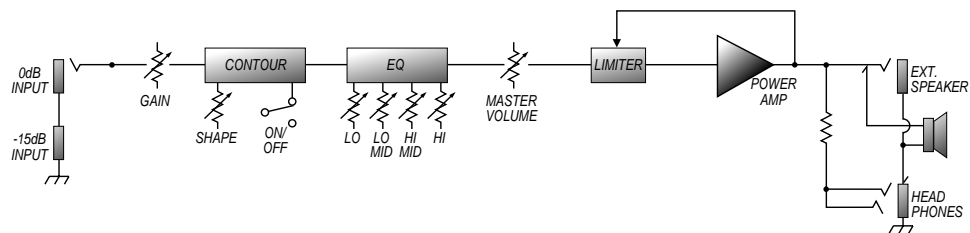
**16: POWER CORD:** (Rear panel, not shown) This heavy duty, grounded, three wire power cord is to be plugged into ONLY a safely wired, grounded 120 volt, 60 cycle AC power outlet. **DO NOT attempt to defeat the ground connection of this cable!** If your BX-25/50 was purchased outside of the United States, see the unit's rear panel for its power rating and follow the above guidelines.

# CRATE<sup>®</sup> BX-25/50 Bass Amplifier

## SUGGESTED STARTING SETTINGS:



## SYSTEM BLOCK DIAGRAM:



The BX-25/50 is covered with a durable black Tolex material: wipe it clean with a lint-free cloth. Never spray cleaning agents onto the cabinet. Avoid abrasive cleansers which would damage the finish.

*El BX-25/50 está cubierto con un material durable Tolex: límpielo con una toalla seca. Nunca rocíe el gabinete con sustancias limpiadoras. Evite usar materiales abrasivos con los cuales pueda danar el acabado.*

*Le BX-25/50 est couvert avec «Tolex» un recêtement noir et durable. Essayez cette matière avec une toile propre et sans charpie. Ne pulvérisiez jamais les agents de nettoyage sur l'appareil. Evitez les nettoyeurs abrasifs qui peuvent endommager le «Tolex.»*

# CRATE® BX-25/50 Bass Amplifier

## BX-25/50 TECHNICAL SPECIFICATIONS:

	BX-25	BX-50
Output Power Rating	27W RMS 1%THD 4Ω, 120 VAC	50W RMS 1.5%THD 4Ω 120 VAC
Gain	0dB Input -15dB Input	56dB, tones at "5" @ 1kHz 41dB, tones at "5" @ 1kHz
Tone Range	Low Low Mid High Mid High	28dB @ 60Hz 15dB @ 400Hz 18dB @ 1kHz 33dB @ 10kHz
Signal to Noise Ratio	75dB	75dB
Input Impedance	220k ohms	220k ohm
Maximum Signal Accepted	15 volts, peak-to-peak	15 volts, peak-to-peak
Power Requirements	110VAC, 60Hz, 45VA 100/110VAC, 50/60Hz, 45VA 230VAC, 50/60Hz, 45VA	110VAC, 60Hz, 85VA 100/110VAC, 50/60Hz, 85VA 230VAC, 50/60Hz, 85VA
Internal Speaker	Size Type Magnet Voice Coil RMS Rating Impedance	12" Crate Custom 30 oz 1.5" 50 watts 8 ohms
Size	17" H x 15.75" W x 12" D	20.62" H x 17" W x 13.5" D
Weight	39 lbs (17.7kg)	47 lbs (21.3kg)

<b>CAUTION</b> RISK OF ELECTRIC SHOCK DO NOT OPEN CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.	THIS EQUIPMENT HAS BEEN DESIGNED AND ENGINEERED TO PROVIDE SAFE AND RELIABLE OPERATION. IN ORDER TO PROLONG THE LIFE OF THE UNIT AND PREVENT ACCIDENTAL DAMAGES OR INJURY, PLEASE FOLLOW THESE PRECAUTIONARY GUIDELINES: <b>CAUTION:</b> TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT OPEN CHASSIS. DO NOT DEFEAT OR REMOVE THE GROUND PIN OF THE POWER CORD. CONNECT ONLY TO A PROPERLY GROUNDED AC POWER OUTLET. <b>WARNING:</b> TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE. <b>CAUTION:</b> NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL. <b>CAUTION:</b> OUR AMPLIFIERS ARE CAPABLE OF PRODUCING HIGH SOUND PRESSURE LEVELS. CONTINUED EXPOSURE TO HIGH SOUND PRESSURE LEVELS CAN CAUSE PERMANENT HEARING IMPAIRMENT OR LOSS. USER CAUTION IS ADVISED AND EAR PROTECTION IS RECOMMENDED IF UNIT IS OPERATED AT HIGH VOLUME.	ESTE APARATO HA SIDO DISEÑADO Y CONSTRUÍDO PARA PROVEER AÑOS DE OPERACIÓN SEGURA Y CONFIABLE. PARA PROLONGAR LA VIDA DE ESTA UNIDAD E IMPEDIR DAÑOS ACCIDENTALES POR FAVOR SIGA ESTAS INSTRUCCIONES PREVENTIVAS: <b>PRECAUCIÓN:</b> PARA DISMINUIR EL RIESGO DE DESCARGAS ELÉCTRICAS: (1) NO ABRA LA CUBIERTA. (2) NO ES RECOMENDABLE REMOVER O DESACTIVAR LA PATA DEL POLO A TIERRA DEL CABLE DE CORRIENTE. CONECTE CORRECTAMENTE A UNA TOMA DE CORRIENTE A TIERRA. <b>ADVERTENCIA:</b> PARA EVITAR DESCARGAS ELÉCTRICAS O PELIGRO DE INCENDIO, NO DEJE ESTE APARATO EXPUESTO A LA LLUVIA O HUMEDAD. <b>PRECAUCIÓN:</b> NO HAY PIEZAS ADENTRO QUE EL USUARIO PUEDE REPARAR. DEJE TODO MANTENIMIENTO A LOS TÉCNICOS CALIFICADOS. <b>PRECAUCIÓN:</b> NUESTROS AMPLIFICADORES PUEDEN PRODUCIR NIVELES DE PRESIÓN DE SONIDO ALTO. EXPOSICIÓN CONTINUADA A LOS NIVELES DE PRESIÓN DE SONIDO ALTO PUEDE CAUSAR DAÑO PERMANENTE A SU OÍDO. ES ACONSEJADO QUE USE PRECAUCIÓN AL USUARIO Y ES RECOMENDADO PROTECCIÓN PARA LOS OÍDOS SI LA UNIDAD ES OPERADA A VOLUMEN ALTO.	CET ÉQUIPEMENT AVAIT ÉTÉ INVENTÉ ET ARRANGÉ POUR POURVOIR DES ANNÉES D'USAGE SAUF ET SÛR. POUR PROLONGER LA VIE DE CET APPAREIL ET POUR ÉVITER LES DOMMAGES ET LES TORTS ACCIDENTELS, SUIVEZ LES INSTRUCTIONS DE PRÉCAUTION. <b>AVERTISSEMENT:</b> POUR RÉDUIRE LES RISQUES D'ÉLECTROCUTION: (1) N'OUVREZ PAS LE CHÂSSIS. (2) NE PAS ESSAYER DE SUPPRIMER LA BROCHE CORRESPONDANT À LA TERRE. <b>ATTENTION:</b> POUR RÉDUIRE LES RISQUES D'UN FEU OU D'ÉLECTROCUTION, N'EXPOSEZ PAS L'APPAREIL À LA PLUIE OU À LA MOÛTEUR. <b>ATTENTION:</b> IL N'Y A PAS D'ÉLÉMENTS RÉPARABLES DANS L'APPAREIL. CONSULTER UN TECHNICIEN QUALIFIÉ POUR LES RÉPARATIONS. <b>ATTENTION:</b> NOS AMPLIFICATEURS SONT CAPABLES DE LA PRODUCTION DES NIVEAUX DE SON D'UNE HAUTE PRESSION. L'EXPOSITION CONTINUE AUX CES NIVEAUX PEUT CAUSER LA SURDITÉ PERMANENTE. LA PRUDENCE EST ADVISÉ À UTILISATEUR ET LA PROTECTION DES OREILLES EST RECOMMANDÉ SI L'APPAREIL EST UTILISÉ À UN HAUT NIVEAU DE VOLUME.
EXPLANATION OF GRAPHICAL SYMBOLS: EXPLICACION DE SIMBOLOS GRAFICOS: EXPLICATION DES SYMBOLES GRAPHIQUES:	= "DANGEROUS VOLTAGE" "VOLTAJE PELIGROSO" "DANGER HAUTE TENSION" "GEFAHLICHE SPANNUNG"	= "IT IS NECESSARY FOR THE USER TO REFER TO THE INSTRUCTION MANUAL." "ES NECESARIO QUE EL USUARIO SE REFIERA AL MANUAL DE INSTRUCCIONES." "REFERREZ-VOUS AU MANUEL D'UTILISATION" "UNBEDINGT IN DER BEDIENUNGSANLEITUNG NACHSCHLÄGEN"	

Crate continually develops new products, as well as improves existing ones. For this reason, the specifications and information in this Crate manual are subject to change without notice.

Crate continuamente desarrolla nuevos productos, así como también mejora los existentes. Por esta razón, las especificaciones e información incluidos en este manual están sujetos a cambios sin previo aviso

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